

conditioning plant and being constructed and arranged to generate an air stream directed downwards into a region of a warp of the weaving machine,

wherein an outlet opening of the air outlet is constructed and arranged to extend transversely to the warp and to be spaced from the warp,

an air distributor being connected upstream of the outlet opening, said air distributor including a plurality of flat distribution components stacked in a spaced relation in the direction of air flow, said flat distribution components being constructed and arranged to distribute air between the inlet opening and the outlet opening, and wherein the outlet opening exhibits a width of at least 150 mm.

6. The device as claimed in claim 5, wherein the outlet opening of the air outlet is provided at a long side of a box, which forms the air distributor and which is approximately rectangular in profile and having a cross section which approximately corresponds to the cross section of the outlet opening.

7. The device as claimed in claim 5 or 6, wherein the distribution components comprise an air-permeable mat and a perforated sheet, and

wherein a further distribution component disposed opposite the inlet opening is provided as a baffle component in the air distributor.

8. The device as claimed in claim 7, wherein the perforated sheet is disposed, in a direction of flow, upstream of the mat and parallel thereto and to the outlet opening and a surface extent of the mat is approximately the same as the cross section of the outlet opening.

9. The device as claimed in claim 5 or 6, wherein the air distributor includes at least one lateral outlet opening.

10. An arrangement for air conditioning a textile machine, comprising:

a weaving machine,

a local flow outlet disposed above the weaving machine and in flow communication therewith, said outlet being constructed and arranged to produce an air flow stream having a uniform distribution in stages over a cross sectional profile of the flow such that a flow velocity is constant over said cross sectional profile and said outlet having an elongated exit opening.

11. The arrangement according to claim 10, wherein said exit opening extends substantially along an entire working length of the weaving machine.

12. A device for air conditioning a weaving machine comprising:

at least one local air outlet for the weaving machine, said outlet being connected via an inlet opening to an air conditioning plant and being constructed and arranged to generate an air stream directed downwards into a region of a warp of the weaving machine,

wherein an outlet opening of the air outlet is constructed and arranged to extend transversely to the warp and to be spaced from the warp,

an air distributor being connected upstream of the outlet opening, said air distributor including a plurality of flat distribution components connected in series in the direction of air flow, and

wherein the outlet opening exhibits a width of at least 150 mm, and wherein the outlet opening of the air outlet is provided at a long side of a box, which forms the air distributor and which is approximately rectangular in profile and having a cross section which approximately

corresponds to the cross section of the outlet opening.

13. The device as claimed in claim 12, wherein the distribution components comprise an air-permeable mat and a perforated sheet, and

wherein a further distribution component disposed opposite the inlet opening is provided as a baffle component in the air distributor.

14. The device as claimed in claim 13, wherein the perforated sheet is disposed, in a direction of flow, upstream of the mat and parallel thereto and to the outlet opening and a surface extent of the mat is approximately the same as the cross section of the outlet opening.

15. The device as claimed in 12, wherein the air distributor includes at least one lateral outlet opening.

16. A process for the air conditioning of a weaving machine, comprising the steps of:

generating, for the weaving machine, at least one conditioning air stream spaced from a warp of the weaving machine and directed towards the warp.

distributing the conditioning air stream so as to form a downwardly directed piston-type displacement flow towards threads of the warp, and

deflecting the displacement flow directed onto a back shed of the weaving machine and then guiding the displacement flow along the warp threads in a direction of a side of a warp beam of the weaving machine.

17. A process for the air conditioning of a weaving machine, comprising the steps of:

generating, for the weaving machine, at least one conditioning air stream spaced from a warp of the weaving machine and directed towards the warp, and

distributing the conditioning air stream so as to form a downwardly directed piston-type displacement flow

towards threads of the warp,

wherein a maximum outlet velocity of 0.9 mm/sec is imparted to the displacement flow.

18. A process for the air conditioning of a weaving machine, comprising the steps of:

generating, for the weaving machine, at least one conditioning air stream spaced from a warp of the weaving machine and directed towards the warp,

0 distributing the conditioning air stream so as to form a downwardly directed piston-type displacement flow towards threads of the warp, and

conditioning the warp threads by a partial stream of the displacement flow, the partial stream flowing along the warp threads,

5 wherein a maximum outlet velocity of 0.9 mm/sec is imparted to the displacement flow.

19. A process for the air conditioning of a weaving machine, comprising the steps of:

10 generating, for the weaving machine, at least one conditioning air stream spaced from a warp of the weaving machine and directed towards the warp,

3 distributing the conditioning air stream so as to form a downwardly directed piston-type displacement flow towards threads of the warp, and

deflecting the displacement flow directed onto a back shed of the weaving machine and then guiding the displacement flow along the warp threads in a direction of a side of a warp beam of the weaving machine,

0 wherein a maximum outlet velocity of 0.9 mm/sec is imparted to the displacement flow.

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